

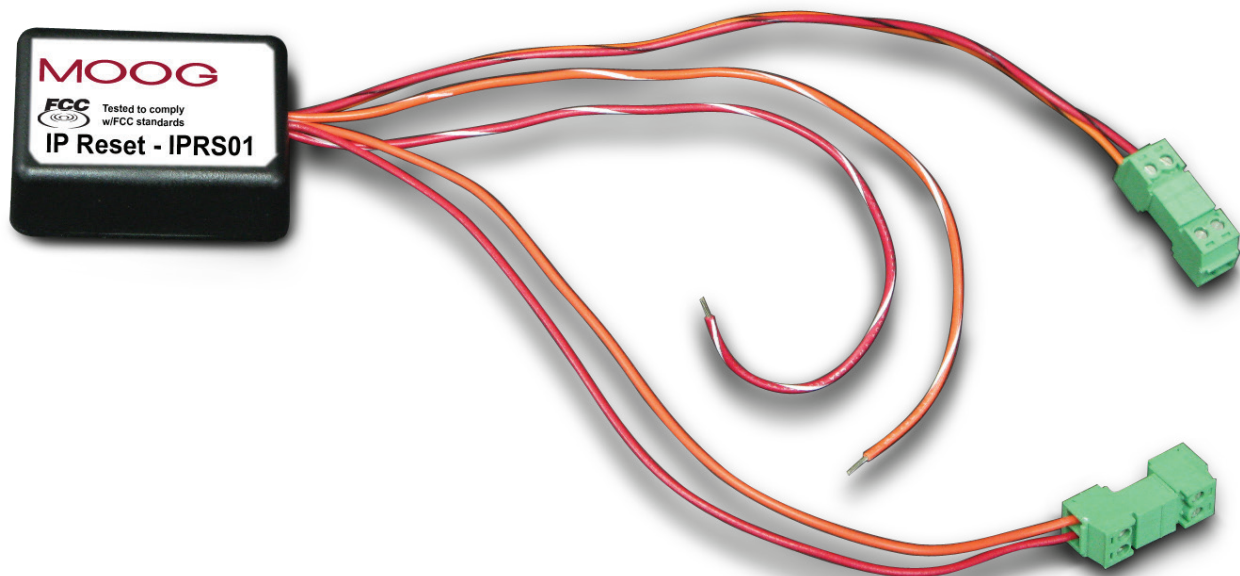
IP Reset

Automatic IP Camera Restart Accessory

IP Reset.....IP Reset- provides a systematic solution for resetting IP cameras or wireless systems, lock-ups caused by network issues, wiring problems and power fluctuations by monitoring the output of an IP camera's digital signal

Installation Steps:

- ❶ Check the package contents
- ❷ Select Operation Mode
 - a. Timed Reset Mode
 - b. Intelligent Reset Mode
- ❸ Read LED Operation instructions
- ❹ Install Software- See IP Reset Manager Software (on CD-ROM)



IMPORTANT SAFEGUARDS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with damp cloth.
- 7 Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- 8 Cable Runs- All cable runs must be within permissible distance.
- 9 Mounting - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

Accordingly:

- a. This installation should be made by a qualified service person and should conform to all local codes.
 - b. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit.
- 10 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 - 11 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 - 12 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 - 13 Only use attachment/ accessories specified by the manufacturer.
 - 14 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
 - 15 Unplug this apparatus during lightning storms or when unused for long periods of time.
 - 16 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

- 1 **The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.**
- 2 **These Installation and Operating Instructions.**

SERVICE

If technical support or service is needed, contact us at the following number:

TECHNICAL SUPPORT
AVAILABLE 24 HOURS
1 - 800 - 554 -1124

SAFETY PRECAUTIONS



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.

Este símbolo se piensa para alertar al usuario a la presencia del "voltaje peligroso no-aislado" dentro del recinto de los productos que puede ser un riesgo de choque eléctrico.

Ce symbole est prévu pour alerter l'utilisateur à la présence "de la tension dangereuse" non-isolée dans la clôture de produits qui peut être un risque de choc électrique.

Dieses Symbol soll den Benutzer zum Vorhandensein der nicht-Isolier "Gefährdungsspannung" innerhalb der Produkteinschließung alarmieren die eine Gefahr des elektrischen Schlages sein kann.

Este símbolo é pretendido alertar o usuário à presença "di tensão perigosa non-isolada" dentro do cerco dos produtos que pode ser um risco de choque elétrico.

Questo simbolo è inteso per avvertire l'utente alla presenza "di tensione pericolosa" non-isolata all'interno della recinzione dei prodotti che può essere un rischio di scossa elettrica.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Este símbolo del punto del exclamation se piensa para alertar al usuario a la presencia de instrucciones importantes en la literatura que acompaña la aplicación.

Ce symbole de point d'exclamation est prévu pour alerter l'utilisateur à la présence des instructions importantes dans la littérature accompagnant l'appareil.

Dieses Ausruf Punktsymbol soll den Benutzer zum Vorhandensein de wichtigen Anweisungen in der Literatur alarmieren, die das Gerät begleitet.

Este símbolo do ponto do exclamation é pretendido alertar o usuário à presença de instruções importantes na literatura que acompanha o dispositivo.

Questo simbolo del punto del exclamation è inteso per avvertire l'utente alla presenza delle istruzioni importanti nella letteratura che accompagna l'apparecchio.

MADE IN
USA
BUY AMERICA COMPLIANT • COUNTRY OF ORIGIN U.S.A.

Product Warranty Registration

Register Your Products Online

www.moogS3.com/technical-support/product-registration

Moog values your patronage. We are solely committed to providing you with the highest quality products and superior customer service. With 3-Year and 5-Year warranties (depending on the product purchased) we stand behind every product we sell.

See full warranty details at www.moogS3.com/technical-support/warranty-plan/

Register your products today to receive the following benefits:

- Simple and Trouble-Free RMA process
- Product / software updates
- Special promotions
- Eliminate the need to archive purchase documents such as receipts, purchase orders, etc.

Limited Warranty for Moog Products

Moog - Decatur Operations, subsequently referred to as "Manufacturer," warrants these products to be free from defects in material or workmanship as follows:

PRODUCT CATEGORY	PARTS \ LABOR
All Enclosures and Electronics	Five (5) Years
Accessory Brackets	Five (5) Years
Controllers	Three (3) Years
Power Supplies / IR Illuminators	Three (3) Years
Poles / PolEvators™ / CamEvator	Three (3) Years
Warrior Series™ / Q-View™	Three (3) Years
SView Series™	Three (3) Years 6 months if used in auto scan / tour operation
DeputyDome™, NiteTrac™, Igloo Dome, PurgeDome™	Three (3) Years 6 months if used in auto scan / tour operation
EXO Series™ Dome and Fixed Camera Systems*	Three (3) Years 6 months if used in auto scan / tour operation
EXO Series™ GeminEye Visible and Thermal Camera Systems	One (1) Year

During the labor warranty period, to repair the Product, Purchaser will either return the defective product, freight prepaid, or deliver it to Manufacturer at Moog Decatur Operations, 2525 Park Central Boulevard, Decatur, Georgia, 30035. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection with a RMA # (Return Materials Authorization number) displayed on the outer box or packing slip. To obtain a RMA# you must contact our Technical Support Team at 800.554.1124, extension 101. Manufacturer will return the repaired product freight prepaid to Purchaser. Manufacturer is not obligated to provide Purchaser with a substitute unit during the warranty period or at any time. After the applicable warranty period, Purchaser must pay all labor and/or parts charges. The limited warranty stated in these product instructions is subject to all of the following terms and conditions.

TERMS AND CONDITIONS

1. NOTIFICATION OF CLAIMS: WARRANTY SERVICE: If Purchaser believes that the Product is defective in material or workmanship, then written notice with an explanation of the claim shall be given promptly by Purchaser to Manufacturer. All claims for warranty service must be made within the warranty period. If after investigation, Manufacturer determines the reported problem was not covered by the warranty, Purchaser shall pay Manufacturer for the cost of investigating the problem at its then prevailing per incident billable rate. No repair or replacement of any Product or part thereof shall extend the warranty period of the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product parts warranty, whichever is greater.

2. EXCLUSIVE REMEDY: ACCEPTANCE: Purchaser's exclusive remedy and Manufacturer's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts.

3. EXCEPTIONS TO LIMITED WARRANTY: Manufacturer shall have no liability or obligation to Purchaser with respect to any Product requiring service during the warranty period which is subjected to any of the following: abuse, improper use, negligence, accident, or acts of God (i.e., hurricanes, earthquakes), modification, failure of the end-user to follow the directions outlined in the product instructions, failure of the end-user to follow the maintenance procedures recommended by the International Security Industry Organization, written in product instructions, or recommended in the service manual for the Product. Furthermore, Manufacturer shall have no liability where a schedule is specified for regular replacement or maintenance or cleaning of certain parts (based on usage) and the end-user has failed to follow such schedule; attempted repair by non-qualified personnel; operation of the Product outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. Manufacturer excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS and excludes used Products which have not been sold by Manufacturer to the Purchaser. All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product. ANY COST ASSOCIATED WITH REMOVAL OF DEFECTIVE PRODUCT AND INSTALLATION OF REPLACEMENT PRODUCT IS NOT INCLUDED IN THIS WARRANTY.

4. PROOF OF PURCHASE: The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, MANUFACTURER HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY AND/OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE STATUTE. MANUFACTURER HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY THAT THE PRODUCT IS COMPATIBLE WITH ANY COMBINATION OF NON-MANUFACTURER PRODUCTS OR NON-MANUFACTURER RECOMMENDED PRODUCTS PURCHASER MAY CHOOSE TO CONNECT TO THE PRODUCT.

LIMITATION OF LIABILITY

THE LIABILITY OF Manufacturer, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL MANUFACTURER BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REPLACEMENT LABOR COSTS, REIMBURSEMENT, OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.



Product Specifications

IPRS01



English

IPRS01 Power Requirements

Input Voltage: 5 to 24 Volts AC/DC

Operating Current: 12ma

Device Power Requirements

Maximum Operating Current: 2 Amps

Maximum Switching Current: 5 Amps

I/O Detect Input

Input Voltage: -25VDC to +25VDC

Input Drive Current: 3ma @ 12V Typ.

Threshold: +1.9 VDC

I/O Cable Length: 6" or 15.2cm

Timer Mode Reset Cycle

12 Hours

Power Reset Period

5 Seconds

Environmental

Temperature: -40 to 158 Degrees F

-40 to 70 Degrees C

Humidity: 5 to 95 % non-condensing

Dimensions

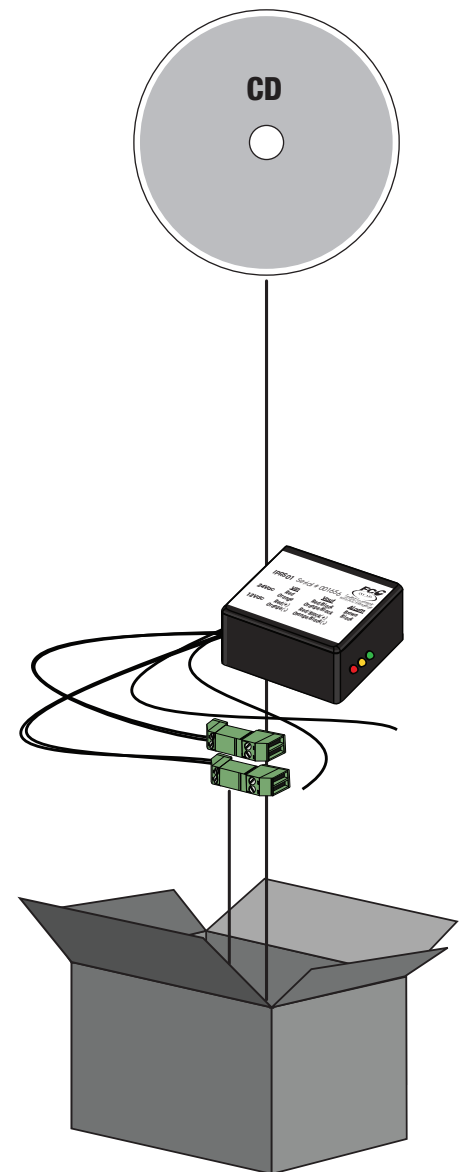
Enclosure: 1.97" x 1.38" x 0.79"

50mm x 35mm x 20mm

NOTES:

² Ratings can be changed to meet customer's requirements for large orders. For the IPRS01 Reset Mode, your equipment must have an I/O. If I/O cable is not connected (or incorrectly connected), IPRS01 will operate in Timed Mode.

Content of Box



! CAUTION:

IP Reset is not weatherproof. When connected to an outdoor camera **Please** make sure it is protected by a camera enclosure. Do not open IP Reset or all warranties will be voided.

! WARNING:

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the unit. Refer servicing to qualified personnel only.

Operating Modes

The IP Reset operates in one of two modes, Intelligent Reset Mode and Timed Reset Mode. IP Reset automatically detects the operating mode by monitoring the I/O Detect input. If IP Reset detects a change in the I/O Detect input, it will enter the Intelligent Reset mode. Otherwise, IP Reset will remain in Timed Reset mode. You can choose to use Timed Mode by twisting the I/O Detect wires together and securing them with the wire nut.

Intelligent Reset Mode

The Intelligent Reset Mode monitors a relay output on the device being protected. The relay output on the IP device is commanded to toggle at a predetermined interval using IP Reset Manager Software or other network software designed to support IP Reset. When IP Reset detects the loss of the relay toggle, after a predetermined detection period, it power restarts the protected device. Generally, a power reset will restore the device to proper operation. After 2 failed attempts to restore the device's operation, IP Reset will re-start the protected device once every four hours (fault detection mode).

Timed Reset Mode

The Timed Reset Mode, simply cycles power on the protected device every 12 hours. When used in Timed Reset mode, IP Reset connects directly inline with the device's power, does not use the I/O Detect Cable and does not require any remote commanding software.

NOTE:

If Timed Reset Mode is used on a PTZ camera, the camera will typically reset to its home position upon reset. For this reason, we recommend using Intelligent Reset Mode whenever possible for PTZ cameras.

Output Relay Configuration and Connections

Output Relay Configuration

The relay output configurations vary based on the manufacturer's design. Because of these variations, the IP Reset I/O Detect input needs to operate in one of three ways. Refer to your camera user manual for more information regarding the output relay configuration of your camera.

Dry Contact

The first and most common method requires the IP Reset to supply current to the dry contacts of a relay. This configuration is shown in Figure 5.

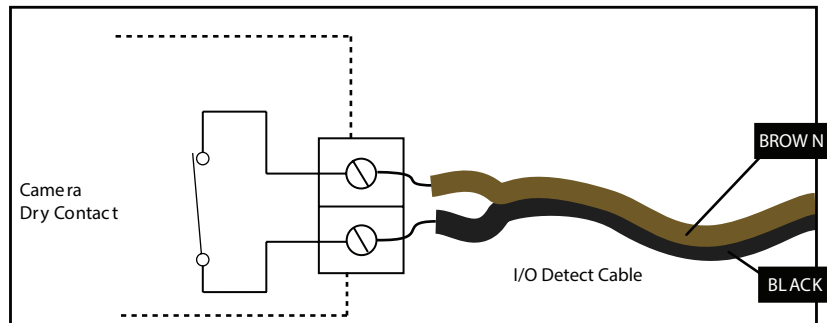


Figure 5: Dry Contact Relay I/O Detect Connection

Passive Solid-State

The second method is similar, requiring the IP Reset to supply current to an open collector output transistor. This configuration is shown in Figure 6.

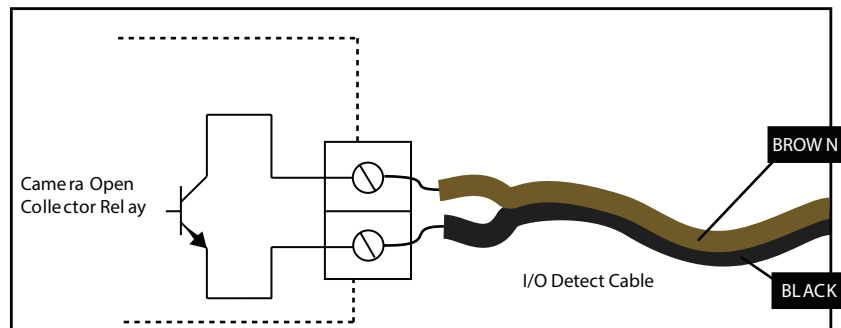


Figure 6: Passive Solid-State Relay I/O Detect Connection

Active Solid-State

The third and least common method is the emitter follower where the camera output supplies the current used for detection. In this configuration is shown in Figure 7.

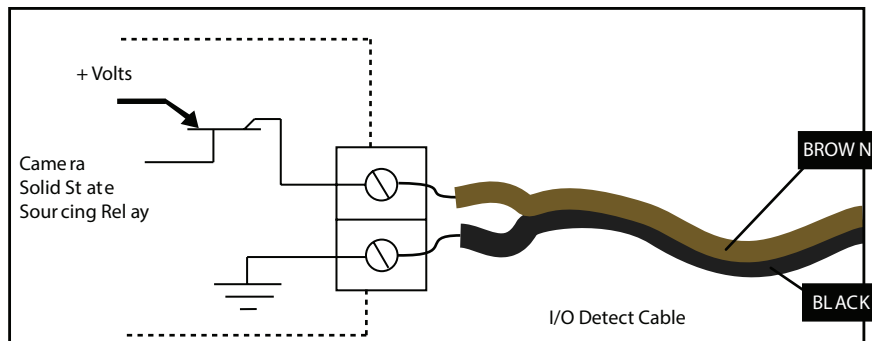


Figure 7: Active Solid-State Relay I/O Detect Connection

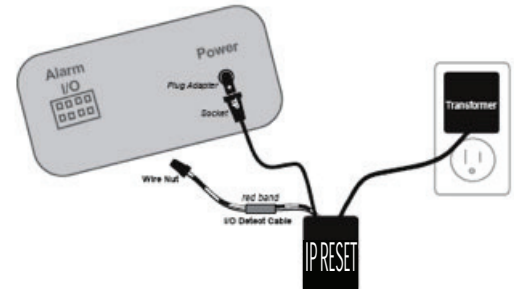
Hardware Installation

The hardware installation depends upon the desired operating mode - Timed Reset Mode or Intelligent Reset Mode.

Timed Reset Mode Installation

1. Do not connect I/O Detect cable. Instead, twist wires together with provided wire nut.
2. Connect the power output pin from the IP Reset to the Power input on your device
3. Connect the power from the transformer to the power input in the IP Reset.
4. No IP Reset Manager Software installation is necessary.

Your IP Reset STD is now connected in Timed Mode. Your protected device should be operating and power reset once every 12 hours.



IP Reset® Intelligent Reset Mode Installation

Operating the IP Reset® Intelligent Reset Mode requires an output connection to the protected device via the I/O Detect cable. The below illustrates the typical connections for Intelligent Reset Mode

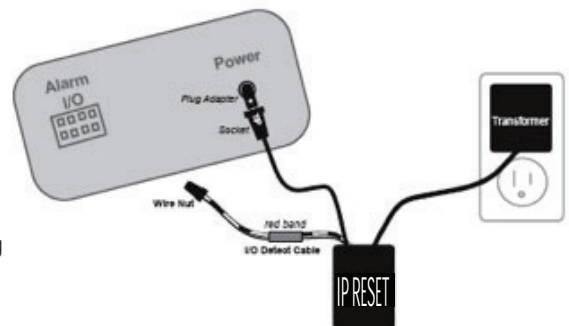
! WARNING !

If Intelligent Reset Mode connection is incorrect and IP Reset® does not detect I/O communication, IP Reset will remain in Timed Reset Mode and re-start your device once every 12 hours.

1. Locate your camera in the IP Camera Compatability Chart (Appendix A). If your camera is not listed, please contact Moog at (800)-554-1124.
2. Connect the Brown I/O Detect wire to the I/O terminal specified for your device.
3. Connect the Black I/O Detect wire to the I/O terminal specified for your device.
4. Connect the power output pin from the IP Reset to the Power input on your device.
5. Connect the power from the transformer to the power input in the IP Reset.
6. Add your device's configuration to the IP Reset Manager Software or Network video recording (NVR) software (See IP Reset Manager Software installation in CD-ROM).

Note 1: Connection polarity MUST be observed for all devices.

Note 2: If the input connections need to be modified, the Brown wire is plus VDC and the Black wire is ground (0 VDC).



Hardware Installation (cont.)

IP Reset® LED Operation

LED Operation



Green LED – Device Power Indicator

- ON : Power On to Device
- OFF : Power Off to Device

Yellow LED – Communication/Signal Status

- Timed Mode : Flashes every second
- Intelligent Mode : Flashes every 90 Seconds (On = input High, Off = input Low)

Red LED – Operation Mode Indicator

- ON : Intelligent Mode, device operating as expected
- OFF : Timed Mode
- Flashing : Intelligent Mode, device fault detected

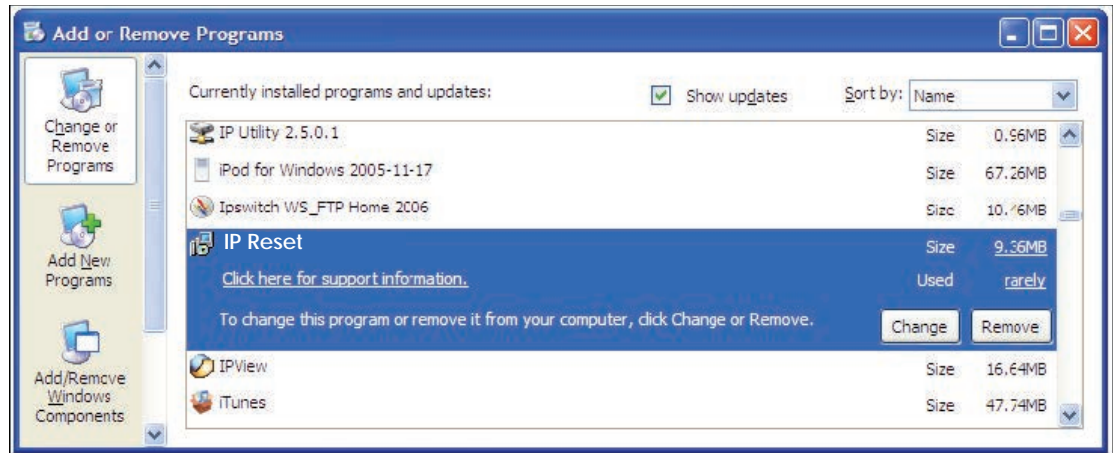
Software Installation (For a windows based PC)

If there is a preexisting version of the IP Reset Manager Software on your computer go to “**Add/Remove Programs**” from the MS Windows Control Panel and remove it before beginning a new software installation.

To remove a preexisting IP Reset Manager Installation, go to the Windows “Control Panel” and click on the “**Add or Remove Programs**” software icon. After a few seconds the following window will appear:

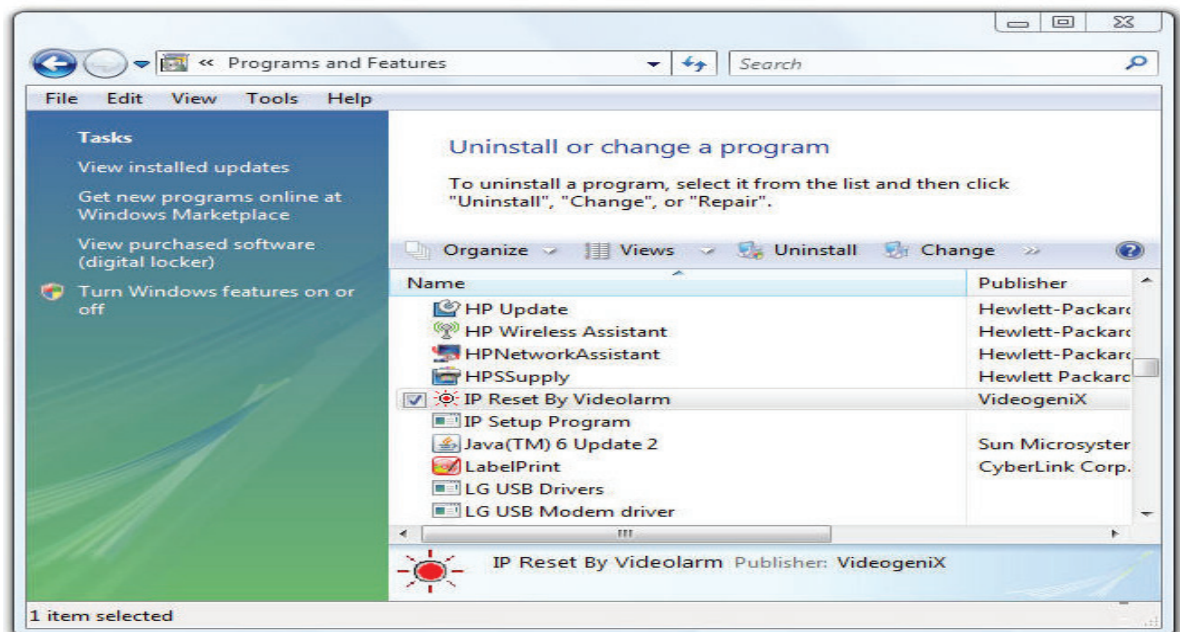
From the “Add or Remove Programs” menu below in Windows XP, select the program “IP Reset”. Click on the “**Remove**” button (See screen shot below)

In Windows XP/XP PRO



From the “Uninstall or change a program” menu in Windows Vista, double click on the “IP Reset by Moog” application.

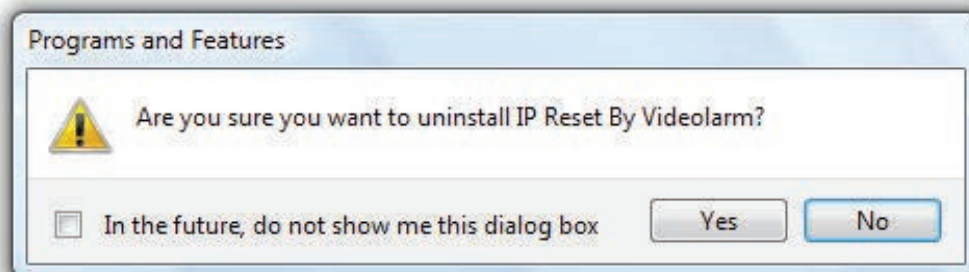
In Windows Vista



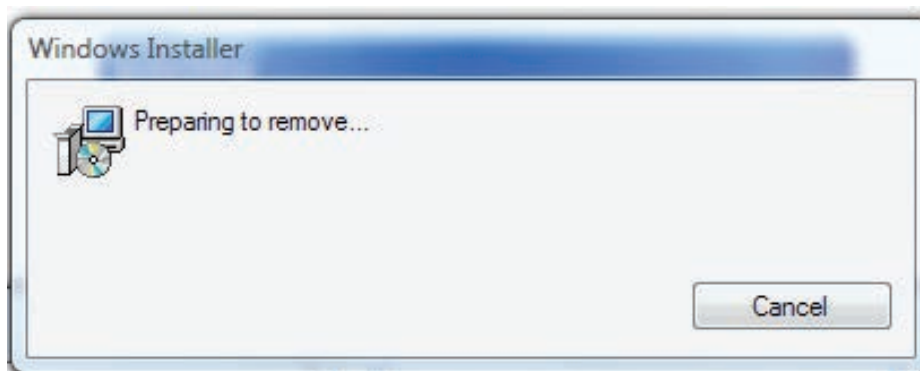
In response to the confirmation box “Add or Remove Programs” message. Click “Yes”.

Software Installation (For a windows based PC continued)

In response to the confirmation box "Add or Remove Programs" message. Click "Yes".

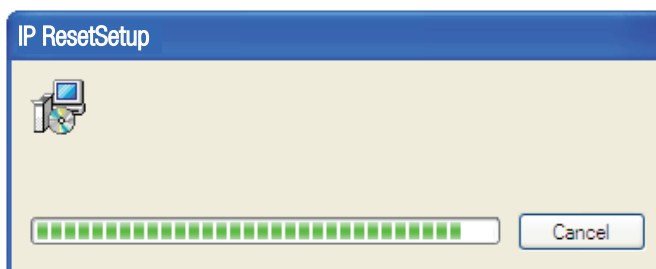


A window may show up as follows: Let this window run to completion.



Following the above window if you are removing the application from a computer with the Windows Vista operating system, a window (not shown) may appear with the title "User Account Control". It will say "An Unidentified Program Wants to Access Your Computer", if this window appears you should click "Allow".

While the software is being removed you will see the following window

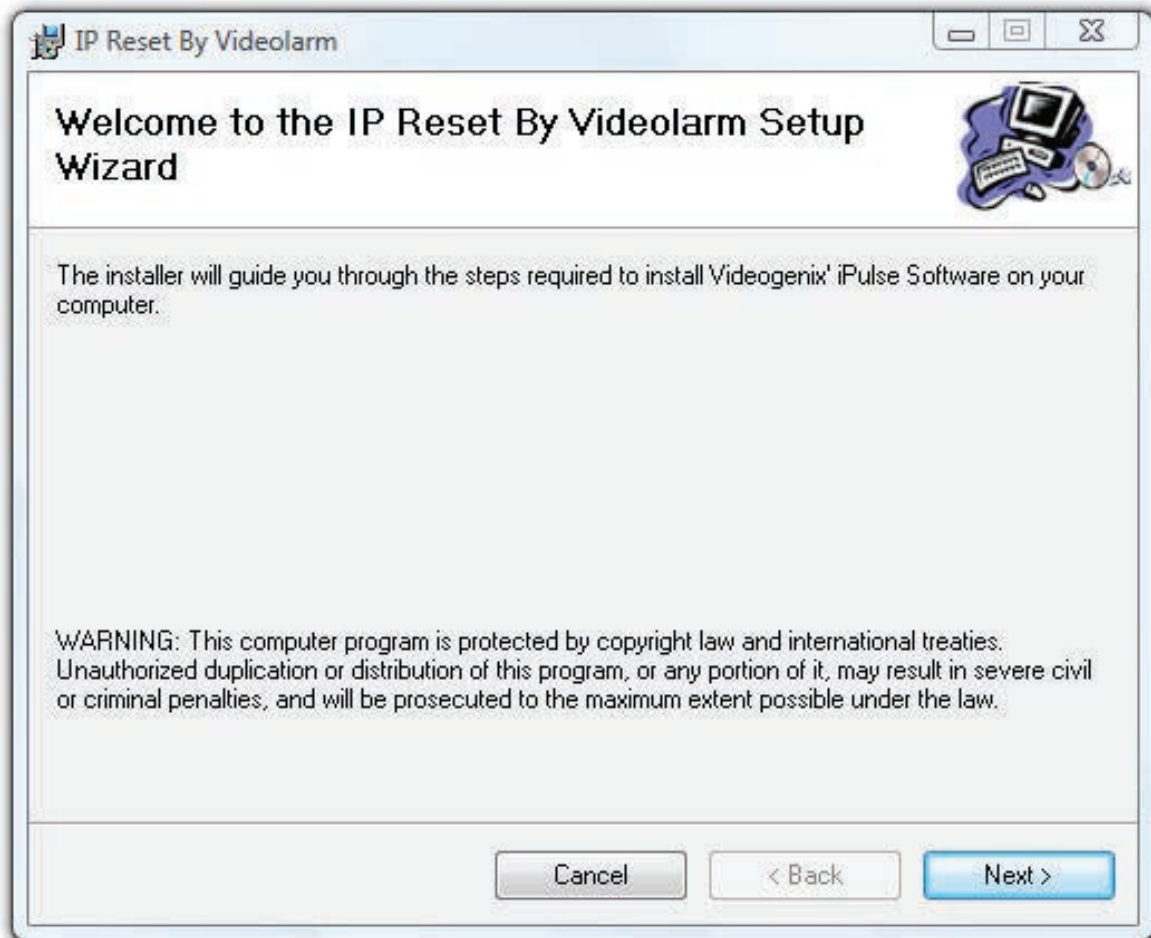


Wait till the above window goes away. At this point the IP Reset Manager Software will have been removed from your computer. You can now proceed with the software installation.

IP Reset Manager Software Installation Guide

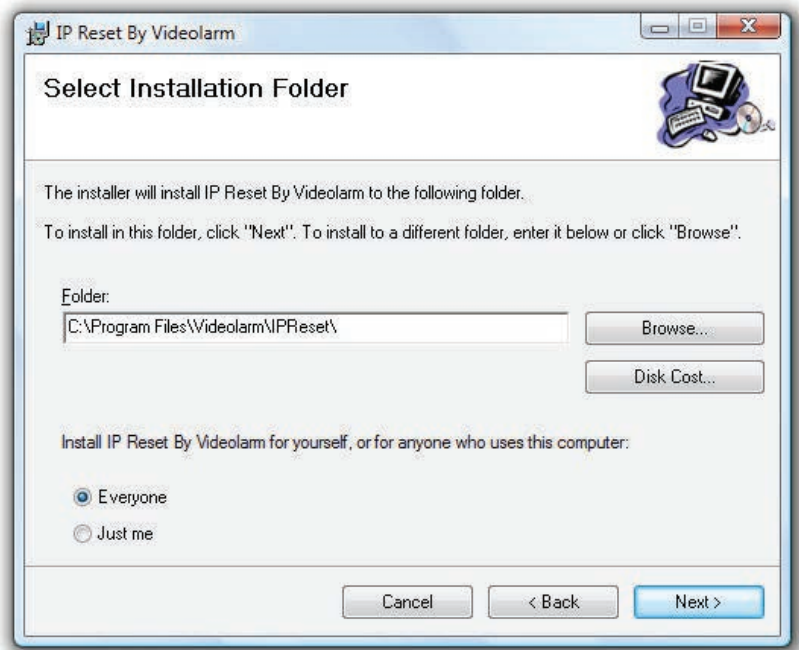
After you have fully removed any preexisting installations of IP Reset Manager (see section “Removing IP Reset Software” from your system), insert the CDROM that came with your IP Reset device into the hard drive of the networked computer that will run the IP Reset Manager Software (computer must be on the same network with the video cameras)

If the installation file doesn't launch automatically, Double click on “**setup.msi**” file in the root directory of the supplied CDROM. A window pops up saying “Welcome to the IP Reset Setup Wizard”, click the box that says “**Next>**”, if you accept the registration statement.

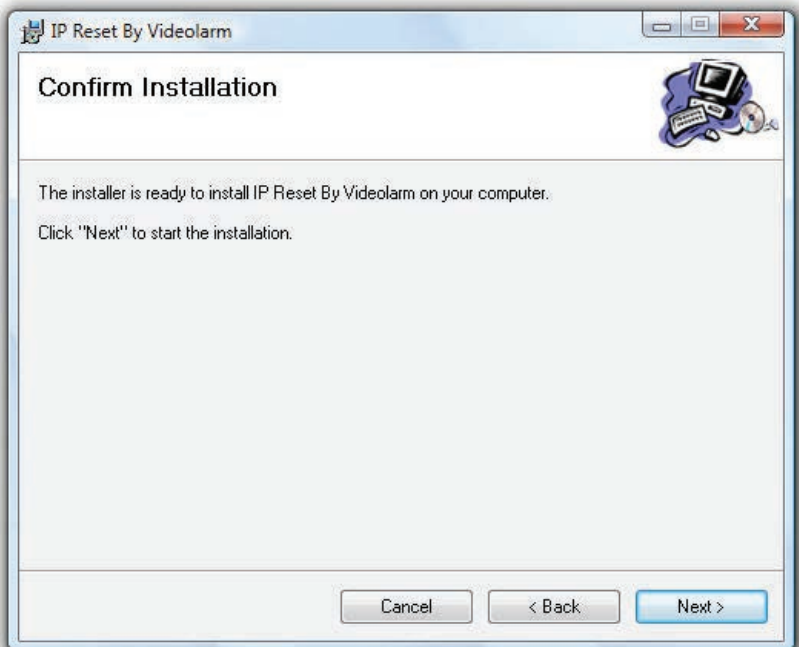


IP Reset Manager Software Installation Guide Continued

A Window pops up that says "Select Installation Folder", if the radio button "just me" is selected, (shown below) than change it to the radio button "**Everyone**", as shown below

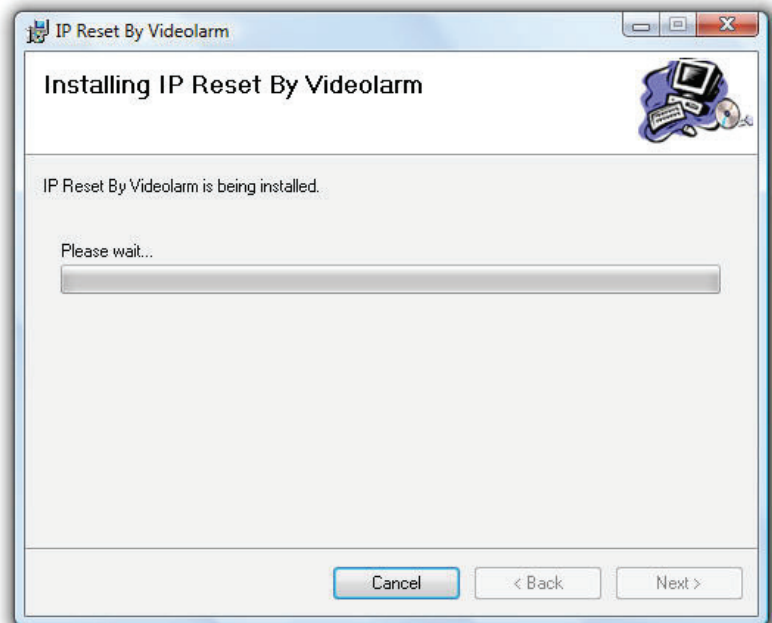


A window will appear that says, "Confirm Installation", Click "Next >" to confirm the installation!

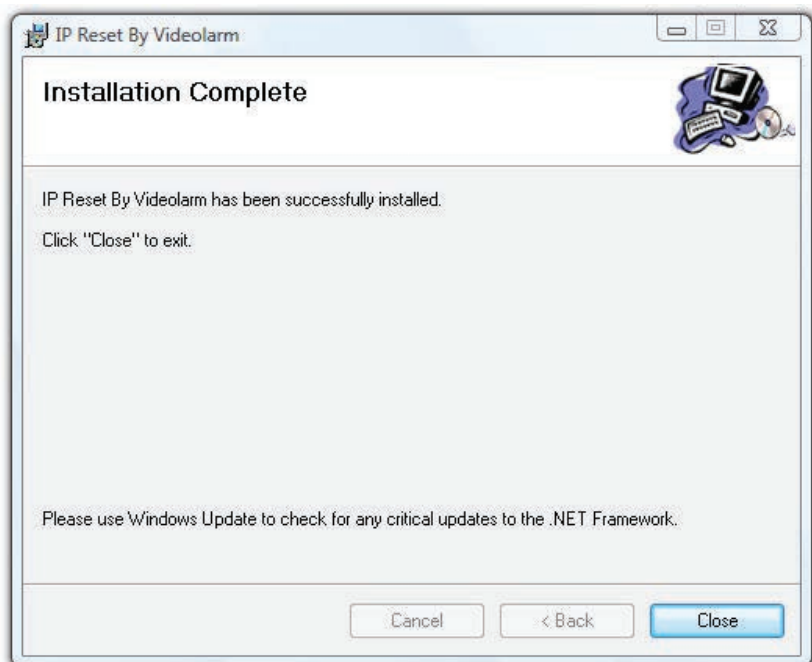


IP Reset **Manager Software** Installation **Guide** Continued

Following the above window if you are installing the IP Reset application from a computer with the Windows Vista operating system, a window (not shown) may appear with the title "User Account Control". It will say "An Unidentified Program Wants to Access Your Computer", if this window appears you should click the "Allow" option.



Once installation completes the final window "Installation Complete" is launched, Click "Close" to complete the installation process.



Older machines may require downloading Microsoft Dot Net

If you are on an older windows machine that does not have a current version of Microsoft's Dot Net libraries, you may get a message from Windows requiring you to download the latest version of Microsoft .Net. At this point you will have log on to Microsoft at:

<http://msdn.microsoft.com/en-us/netframework/default.aspx>

And download the latest version of Microsoft's .Net libraries. After doing this double click on the downloaded files to install .Net. Once this has completed reboot your computer.

Create an Exception for IP Reset Software from Windows Firewall

Select "**Control Panel**" from the start Menu

Select "**Windows Firewall**"

Click on "**Allow a program through the Windows Firewall**"

Click on "**continue**" if asked are you sure you want to do this or the "User Account Control" window appears

Under the "**exceptions**" tab on the "Windows Firewall Settings" menu, click the "**Add Program ...**" Button

Click on the "**Browse ...**" button

Browse to the installation directory for the IP Reset software. Unless you changed this directory for the installation you should browse to "**C:\Program Files\Moog\IP Reset**

Select "**IPResetConfigurator.exe**"

Click "**OK**"

Click "**OK**"

Exit the "Windows Firewall Settings"

Exit the "Windows Firewall"

Start the IP Reset Configuration Tool, "IPResetConfigurator.exe"

(For the following steps, you may get a message that says ".NET Framework" needs to be upgraded, In this case follow the instructions and upgrade ".NET" before continuing)

Restart your computer and the centralized IP Reset control service launches automatically. You will see the IP Reset configurator application on the users startup menu under the "All Programs" option. The name of the IP Reset configuration program is "IPResetConfiguratore.exe".

The application is also installed on the user's desktop and may be launched by clicking the IP Reset desktop Icon shown below:



Once launched the IP Reset Configuration application resides in the users "control tray" on the bottom right hand side of the screen. If the IP Reset application is enabled the "Sunburst" Icon will blink. If the application is disabled the icon stays solid. The user can then program IP Reset devices by using the mouse button and right clicking on this icon in the users tray.



IP Reset Icon in users Control Tray (red starburst)

You are now ready to run the IP Reset Configuration Software. For usage information refer to application users document "IP ResetSoftwareUsersGuide.pdf" which is enclosed as a PDF with the CD-ROM. After successful installation the user's guide and operations guide can be found on your computer in the following directory:

"C:\Program Files\Moog\IP Reset\IP Reset_Software_User_s Guide.pdf" is the application manual used to configure IP Reset devices from the computer. It describes installing the IP Reset devices to work with your cameras or other devices.

If you ever want to run the IP Reset software directly, browse to the IP Reset installation Directory, **"C:/Program Files/Moog/IP Reset"**, and double click on the file **"IPResetConfigurator.exe"**. This will force the configuration application to launch manually.

Appendix A




IP Reset


IP Camera Compatibility Chart

Products: IPRS01 / PB24RS / PB24BBRS

Notes:

1. If Intelligent Mode column is not checked, IP Reset should only be used in Timed Mode.
2. If more than one terminal strip number is listed for solid and striped wires, connect as follows: choose first numbers in each column or second numbers in each column.

		iPulse® Options			
Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
Axis 205			N/A	N/A	5DC
Axis 206		3.5x1.3x11mm	N/A	N/A	5-5.5VDC
Axis 206M		3.5x1.3x11mm	N/A	N/A	5-5.5VDC
Axis 206W		3.5x1.3x11mm	N/A	N/A	5-5.5VDC
Axis 207	✓	3.5x1.3x11mm	4	1	5.1VDC
Axis 207 W/MW	✓	3.5x1.3x9mm	4	1	4.9-5.1VDC
Axis 209FD/FDR/MFD					
Axis 210/210A	✓	3.5x1.3x9mm	4	1	7-20DC
Axis 211/211A	✓	3.5x1.3x9mm	4	1	7-20 VDC + PoE
Axis 211W	✓	3.5x1.3x9mm	4	1	7-20DC + PoE
Axis 212PTZ		3.5x1.3x9mm			4.9-5.1VDC
Axis 213PTZ		2x0.75x(+) center	C-Mod	C-Mod	11.5-14VDC
Axis 214PTZ	✓	2x0.75x(+) center	4	2	11-13VDC
Axis 215PTZ	✓		4	1	11.5-12.5VDC
Axis 216FD/V-216MFD/V	✓		1	4	4.9-5.1VDC
Axis 221	✓		1/2	10	7-24VDC, 10-24VAC, PoE
Axis 223					7-24VDC, 10-24VAC, PoE
Axis 225FD	✓		1/2	10	9-24VDC, 10-24VAC, PoE
Axis 231D+/232D+					24-40 VDC, 19-28 VAC
Axis 233D+	✓		2/4/6/8	1/3/5/7	22-40 VDC, 18-30 VAC
Axis 240Q					
Axis 241S/SA/Q/QA		3.5x1.3x9mm			
Axis 242SIV					
Axis 243SA					
Axis 2100					
Axis 2110					
Axis 2120					
Axis 2130					
Axis 2400					
Axis 2401					
Axis 2411					
Axis 2415					
Axis 2415Q					

		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
VB-C50IR*	✓	EIAJ-D4, 5.5x3.3x4mm	1B/2B/3B	1A/2A/3A	13VDC



Canon		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
VB-C50FSI*	✓	EIAJ-D4	1B/2B/3B	1A/2A/3A	13VDC
VB-C300	✓	Terminal Strip	A	B	12-13VDC or 24VAC, PoE

Requires a VB-EX60 connection module for I/Os



CellVision		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
CAS200	✓	5.5x2.1x4mm	5/7	6/8	5VDC
CAS390	✓	5.5x2.1x4mm	5/7	6/8	5VDC
CAS790	✓	5.5x2.1x4mm	5/7	6/8	5VDC
VIS2101	✓		5/7	6/8	




D-Link		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
DCS900					
DCS950/950G					
DCS1000	✓	5.5x2.1x4mm	5/7	6/8	5VDC
DCS1100					
DCS2000/2100/2100G	✓	5.5x2.1x4mm	4	3	12VDC
DCS3220/3220G	✓	5.5x2.1x4mm	4	3	12VDC
DCS3420					
DCS5220/5330/5300G	✓	5.5x2.1x4mm	4	3	12VDC
DCS6620/6220G	✓	5.5x2.1x4mm	4	3	12VDC





HAWKING® TECHNOLOGY		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
HNC200/200w	✓	5.5x2.1x4mm	5 or 7	6 or 8	5VDC
HNC300/300W/320G	✓	5.5x2.1x4mm	5 or 7	6 or 8	5VDC
HNHC700PT/720G	✓	5.5x2.1x4mm	4	3	12VDC
NHC800G/800PTZ	✓	5.5x2.1x4mm	4	3	12VDC



Ikegami		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IPDQ01	✓	Terminal Strip	+	Ground	12VDC/24VAC

		iPulse® Options			
IQeye Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IQ300					12-33VDC/12-28VAC
IQ700/750	✓				12-24VDC/24VAC or PoE
IQ753	✓		4	3	
IQVerify					PoE

		iPulse® Options			
Camera Models	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
VNC10					
VNC20	✓		1/2	Grd Pin	24VAC or PoE
VNC30	✓	+/- terminals	1/2	5	24VAC
VNC205U	✓		1/2	5	
VNC215VP4U	✓		1/2	5	
VNV25U	✓	+/- terminals	1/2	Grd Pin	24VAC or PoE
VNV25U	✓	+/- terminals	1/2	Grd Pin	24VAC or PoE
VNV686U	✓	+/- terminals	5,7	6/8	24VAC
VNV686WPU	✓	+/- terminals	5,7	6/8	24VAC

		iPulse® Options			
Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
BLC1A			N/A	N/A	
BLC10A			N/A	N/A	9VDC
BLC20A			N/A	N/A	
BLC30A			N/A	N/A	
BLC111A					
BLC3111A					
KXHCM8	✓	5.5x2.1x4mm	4	1	
KXHCM110	✓	5.5x2.1x4mm	3	G	
KXHCM230		EIAJ-D4, 5.5x3.3x4mm			
KXHCM250	✓	EIAJ-D4, 5.5x3.3x4mm	4	1	
KXHCM270	✓	EIAJ-D4, 5.5x3.3x4mm	4	1	
KXHCM280	✓	EIAJ-D4, 5.5x3.3x4mm	4	1	
BBHCM311	✓	EIAJ-D4, 5.5x3.3x4mm	3	G	
BBHCM331A	✓	EIAJ-D4, 5.5x3.3x4mm	3	G	

Panasonic**iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
BBHCM371	✓	EIAJ-04, 5.5x3.3x4mm	3	G	
BBHCM381	✓	EIAJ-04, 5.5x3.3x4mm	3	G	AC
BBHCM515	✓	EIAJ-04, 5.5x3.3x4mm			
BBHCE481	✓	EIAJ-04, 5.5x3.3x4mm	3	G	PoE and
WVNF284					PoE
WVNM100					9VDC
WVNM1004					24 VAC
WVNP240					
WVNP244					12/24 AC/DC or PoE
WVNP472					12VDC
WVNS202					12VDC

PELCO**iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
Net350T	✓	RJ11-inner Wires	Bottom 2 nd from left	Top 2 nd from left	12VDC/24VAC
Net350R					

SONY**iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
SNC-CS10	✓	2 Pin Terminal	1	2	
SNC-CS11	✓	2 Pin Terminal	1	2	
SNC-CS50	✓	2 Pin Terminal	5/7	6/8	
SNC-M3/M3W		EIAJ-04, 5.5x3.3x4mm			
SNC-RZ20	✓	2 Pin Terminal	4/6	3/5	
SNC-RZ25N	✓	2 Pin Terminal	5/7	6/8	12/24 AC/DC
SNC-RZ30N	✓	EIAJ-04, 5.5x3.3x4mm	8/10	7/9	12 VDC
SNC-RZ50N	✓	EIAJ-04, 5.5x3.3x4mm	5/7	6/8	12 VDC
SNC-RX550N	✓	2 Pin Terminal	5/7	6/8	12/24 AC/DC
SNC-Z20N	✓	2 Pin Terminal	3/5	4/6	12/24 AC/DC or PoE
SNC-DF40N	✓	2 Pin Terminal	3/5	4/6	12/24 AC/DC or PoE
SNC-DF50N/DF50P	✓	2 Pin Terminal	3/5	4/6	12/24 AC/DC or PoE
SNC-DF70N	✓	2 Pin Terminal	3/5	4/6	12/24 AC/DC or PoE

SONY**iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
SNC-DF80N/DF80P	√	2 Pin Terminal	3/5	4/6	
SNC-P1	√	EIAJ-04, 5.5x3.3x4mm	1	2	12VDC
SNC-P5	√	EIAJ-04, 5.5x3.3x4mm	1	2	12VDC
SNT-V704	√	EIAJ-04, 5.5x3.3x4mm	14/16/18/20	13/15/17/19	12VDC

For SNC-RZ50N, SNC-RZ30N, and SNC-RX660N you will need to log into the camera from a browser, go to the "Trigger" Page and enable either "Alarm output 1" or "Alarm output2" depending on whether you connect (pulse to alarm1 output or alarm2 output. You then select either SNC-RZ50N-Io1, or SNC-RZ50N-Io2 from the iPulse software.

TOSHIBA**iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IK-WB01A					
IK-WB02A		2 Pin Terminal	N/A	N/A	12/24 AC DC or PoE
IK-WB011A					
IK-WB015A		EIAJ-04			12VDC or PoE
IK-WB021A		EIAJ-04			12VDC
IK-WR01A			N/A	N/A	
IK-WBx1A					
IK-wr01A					12/24 AC/DC or PoE

 **TRENDNET®****iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
TVIP100	√	5.5x2.1x4mm	5/7	6/8	5VDC
TVIP200/200w	√	5.5x2.1x4mm	5/7	6/8	5VDC
TVIP201	√	5.5x2.1x4mm	5/7	6/8	5VDC
TVIP400	√	5.5x2.1x4mm	4	3	12VDC

 **VIVOTEK****iPulse®
Options**

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IP2111/IP2121					DC
IP2112/IP2122					DC
IP3111/IP3121	√	5.5x2.1x4mm	4	3	12VDC
IP3112/3122/3132	√	5.5x2.1x4mm	4	3	12VDC
IP3133	√	5.5x2.1x4mm	4	3	12VDC
IP3135			N/A	N/A	5VDC
IP3136/3137			N/A	N/A	5VDC



iPulse® Options					
Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IP6112/6122/6114/6124	✓	5.5x2.1x4mm	2	1	12VDC
IP6117	✓	5.5x2.1x4mm			DC
IP6127					
IP7131	✓	5.5x2.1x4mm	1	4	12VDC
IP7132	✓		1	4	DC
IP7135					5VDC
IP7137					DC
IP7138	✓		1	4	
IP7151/7152	✓	5.5x2.1x4mm	2	4	24VDC
PT3112	✓	5.5x2.1x4mm	4	3	12VDC
PT3113	✓	5.5x2.1x4mm	4	3	12VDC
PT3114/3124	✓	5.5x2.1x4mm	4	3	12VDC
PT3117/3127	✓	5.5x2.1x4mm	4	3	12VDC
PT3122/3123					
PT3124					
PT3125					
PT7135					12VDC
PT7137					DC
PZ6112/6114/6122/6124	✓	5.5x2.1x4mm	4	3	12VDC
PZ7137					DC
FD6111/6121V	✓		1	2	
FD6112/6122V	✓		2	4	12VDC
FD7131	✓		1	2	
SD6112V/6122V					DC
VS2100		5.5x2.1x4mm			12VDC
VS2102		5.5x2.1x4mm			
VS2402					DC
VS2403					
VS3100P	✓	5.5x2.1x4mm	4	3	12VDC
VS3101		5.5x2.1x4mm			12VDC
VS3102	✓	5.5x2.1x4mm	4	3	12VDC



iPulse® Options					
Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
IPXDDK1000					
IPXDDK3000	✓	5.5x2.1x4mm	4	3	12VDC
IPXDDK7000					



iPulse®
Options

Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
Camera Model	Intelligent Mode	Power Connector	Striped Wire	Solid Wire	Power
E104NP					DC
EVS100					DC
EVS400					DC
IPVS1	√	5.5x2.1x4mm	4	3	DC
IPVS100					DC
IPVS1A	√	5.5x2.1x4mm	4	3	DC
IPVS1E	√	5.5x2.1x4mm	4	3	DC
IPVS4					DC
W2100	√	5.5x2.1x4mm	2	1	12VDC
WL30			N/A	N/A	5VDC
W40/L40	√	5.5x2.1x4mm	4	3	12VDC
W50	√	5.5x2.1x4mm	4	3	12VDC
W60	√	5.5x2.1x4mm	4	3	12VDC
W70	√	5.5x2.1x4mm	4	3	12VDC
W80/L80/80z/80IR	√	5.5x2.1x4mm	1	1	12VDC
WLPTG	√	5.5x2.1x4mm	4	3	12VDC
WPT	√	5.5x2.1x4mm	4	3	12VDC
WPTZ/LPTZ	√	5.5x2.1x4mm	4	3	12VDC
WFD/FDV	√		2	4	DC

Notes:

1. If Intelligent Mode is not checked, IP Reset should only be used in Timed Mode.
2. If more than one terminal strip number is listed for solid and striped wires, connect as follows: choose first numbers in each column or second numbers in each column.